

Listing of Claims

This listing of claims replaces all prior claims of the captioned patent application.

Claim 1. (currently amended) A system for restoring execution of a test of a software
~~an application~~ program after interruption of the test performed in a distributed
processing framework by a test application program, the system comprising:

a test suite configured to define tests for testing each particular software
program to be tested, each test suite being configured to define a plurality of test
execution requests for testing the particular software program;

a plurality of software test systems configured in a distributed processing
framework, each of the test systems being configured to operate under control of a
test application program to test a particular software program with respect to ability to
perform specific operations, the test ~~a post-mortem object storing point of execution~~
~~information for an application program, wherein the point of execution information is~~
~~periodically updated to reflect a current point of execution within the application~~
~~program at a time of the update~~ being configured to execute one of the test suites that
defines the tests to be performed on the particular software program, first and second
test execution requests for testing the particular software program being configured to
be executed on different ones of the software test systems distributed among the
distributed processing framework;

a system controller for locating a first software test system capable of
executing the first test execution request, the system controller further locating a
second software test system capable of executing the second test execution request,

the respective located software test system executing a respective test execution request being configured to monitor progress in the execution of the respective test execution request on the respective located software test system, the monitoring comprising gathering data identifying each software test system that is executing at least one of the test execution requests and periodically determining a point of the execution of the respective test execution request;

a respective one of the located software test systems being ~~an agent process~~ ~~executing on a processing resource, wherein the agent process is capable of utilizing the~~ identification of the software test system that is executing the at least one of the test execution requests of the gathered data to identify a point of the execution of a respective test execution request being executed by that one located software test system so that, upon interruption of the execution of that at least one test execution request by that respective one located software test system, the point of execution of that at least one test execution request by the one software test system is known;

~~post-mortem object~~ that respective one located software test system being effective upon such interruption to use the gathered data corresponding to that interrupted execution request to reinitialize the test application program corresponding to the respective one located software test system to begin execution of the respective interrupted test execution request from a position described by the corresponding point of execution information.

Claims 2-6 (canceled).

Claim 7. (currently amended) A system as recited in claim 1_6, wherein the monitoring by the system controller further includes ~~agent process updates the post mortem object with~~ an indication of a particular ~~the~~ individual test executed by the software test system executing the one test execution request referred to by the point of execution.

Claim 8. (currently amended) A system as recited in claim 7, wherein that respective one located software test application is effective to ~~the agent process can~~ reinitialize the software test application program test harness to begin execution from that a particular individual test ~~specified in the post mortem object.~~

Claim 9. (currently amended) A method for restoring execution of a test of a software ~~an application~~ program after interruption of the test performed in a distributed processing framework by a software test application program, comprising:

providing a plurality of software test systems in a distributed processing framework, the software test systems being configured to test a particular software program with respect to ability to perform specific operations, the software test ~~an~~ ~~agent process in communication with an~~ application program being configured to execute a test suite that defines the tests to be performed on a particular software program;

~~updating a post mortem object using the agent process, wherein the agent process updates the post mortem object based on a current point of execution within the application program; and~~

dividing the test suite for one of the particular software programs to be tested into a plurality of test execution requests, first and second test execution requests for testing one particular software program to be executed on different ones of the software test systems distributed among the distributed processing framework;

monitoring progress in executing each test execution request on the respective software test system, the monitoring comprising gathering data identifying each software test system that is executing at least one of the test execution requests and periodically determining a point of the execution of the respective test execution request;

upon interruption of the execution of one of the test execution requests, using the gathered data to identify the software test system that was executing the

interrupted test execution request; and

~~reinitializing the application program after interruption of the application program utilizing the post-mortem object~~ the identified software test system that was executing the interrupted test execution request, the reinitializing being at the determined point of the execution of the respective test execution request that corresponds to the identified software test system.

Claims 10-14 (canceled).

Claim 15. (currently amended) A method as recited in claim 9 ~~14~~, wherein the monitoring further comprises ~~comprising the operation of updating the post-mortem object with an indication of~~ gathering data identifying an individual test corresponding to one of the at least one of the test execution requests corresponding to the identified software test system and to ~~referred to by~~ the point of the execution of that test execution request.

Claim 16. (canceled)

Claim 17. (currently amended) A computer program embodied on a computer readable medium for restoring execution of testing of a software ~~an application~~ program after interruption of the testing, the testing being performed by various ones of a plurality of software test systems, each of the software test systems being configured to perform one or more tests of a test suite of the testing and being arranged in a distributed processing framework to execute a software test application program, the computer program comprising:

a code segment that receives execution information from the software test ~~an~~ application program, wherein the execution information includes an identification of a respective software test application program being executed, an identification of the one software test system that is executing the respective software test application program with respect to one of the tests, and a current point of execution within the test suite ~~application program~~;

a code segment that updates a post mortem object based on the execution information, the update being specific to the respective software test application program being executed by the one software test system that is executing the one of the tests of the test suite, and being specific to the ~~a~~ current point of execution within the test suite ~~application program~~; and

a code segment that reinitializes ~~the~~ that respective software test application program on the respective one software test system utilizing the updated post mortem object after interruption of the one test executed by the one software test system that is executing the respective software test application program.

Claim 18. (currently amended) A computer program as recited in claim 17, wherein the software test application program is a test harness that executes a plurality of individual tests on the software program, and wherein the point of execution refers to an individual test most recently executed by ~~of the test harness that was most recently executed~~ on the one software test system.

Claim 19. (currently amended) A computer program as recited in claim 18, wherein the update code segment updates the post mortem object ~~is updated~~ with an indication of the individual test referred to by the point of execution.

Claim 20. (currently amended) A computer program post-mortem object as recited in claim 19, wherein the respective software test application program being executed by the one software test system is configured to execute a particular test corresponding to a capability of the one software test system, and wherein the reinitializing code segment reinitializes that respective software test application ~~test harness is reinitialized~~ to execute on that one software test system to begin execution from a that particular individual test specified in the corresponding updated post mortem object.